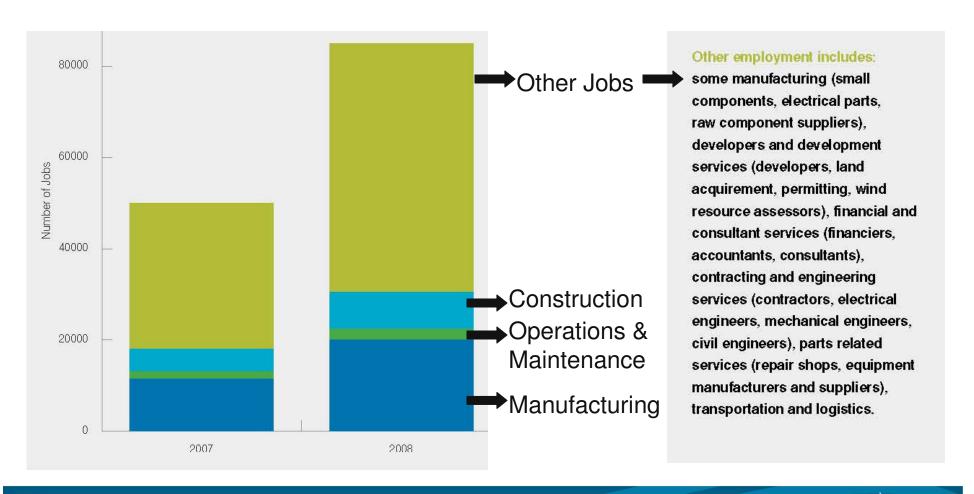


AWEA Educational Initiatives

Susan Williams Sloan October 7, 2009

U.S. Jobs in the Wind Industry

85,000 total U.S. wind industry jobs, over 35,000 wind industry jobs created in 2008







AWEA Education Survey

Purpose of Survey

- Identify short and long term workforce needs for the wind energy industry.
- Gather information regarding Wind Energy programs currently offered or under development.
- Identify skill set required for wind turbine technicians.
- Identify community and K-12 outreach efforts.
- Anticipate future workforce needs.



Survey Response

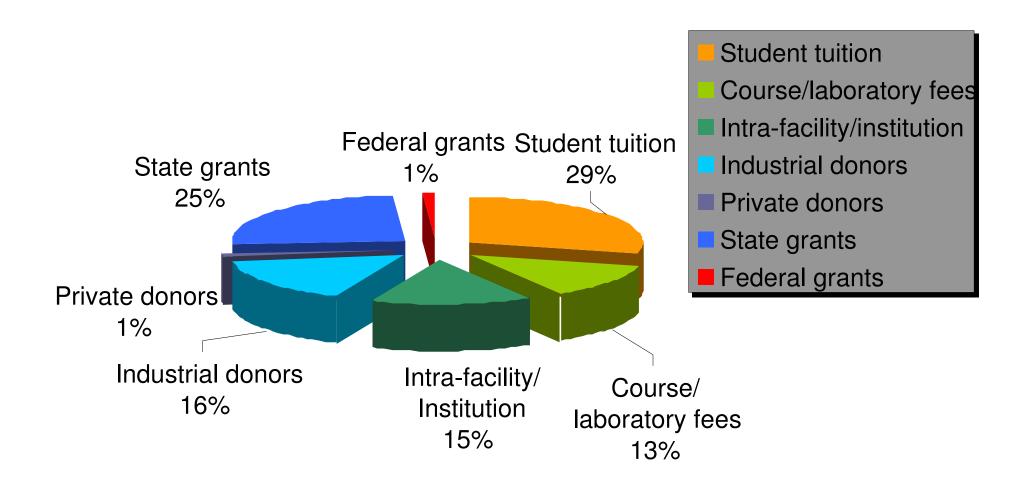
We gathered over 200 responses.

- √128 from industry members and
- √ 78 educational institutions.

From conducting this survey we have gathered information from over 100 educational programs that focus on renewable energy or specifically on wind energy.



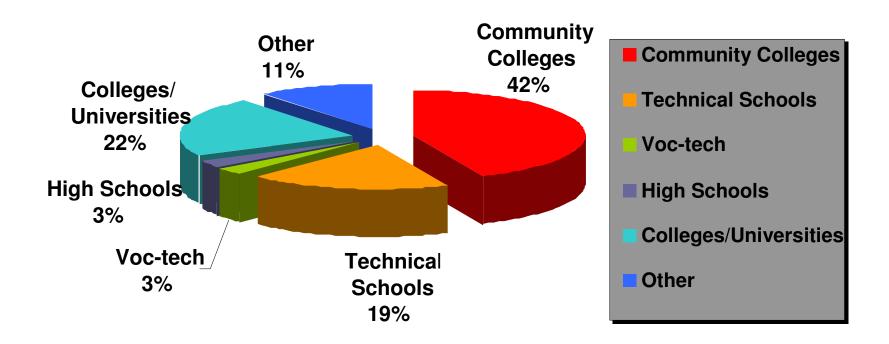
Educational Funding Sources





Type of Educational Institutions Receiving Support from Wind Companies

45 Educational Institutions indicated they received various type of Industrial Support





Top 10 Positions Identified for New Hires Requiring University Education

- → Manufacturing Engineer
- → Material Engineer
- → Account Auditors
- → Project Manager
- → Mechanical Engineer
- → Electrical Engineer
- → Engineering Manager
- → Construction Manager
- → Development Director
- → Business Development Manager



K-12 Initiative What is everyone doing?

Business Members

- 67% of 70 industry respondents which answered this question do not work with K-12 outreach.
- Of those that do...
 - Many provide speakers in schools or science fairs
 - Some work with KidWind or Wind for Schools

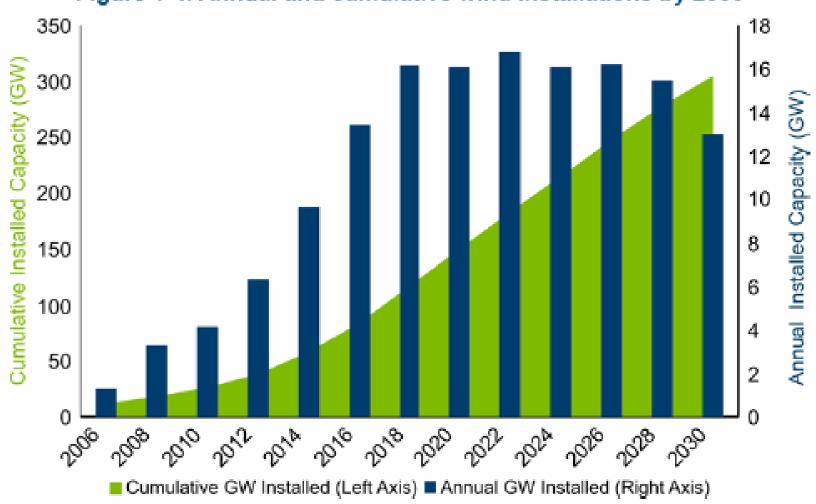


Wind Turbine Technician Specific Results



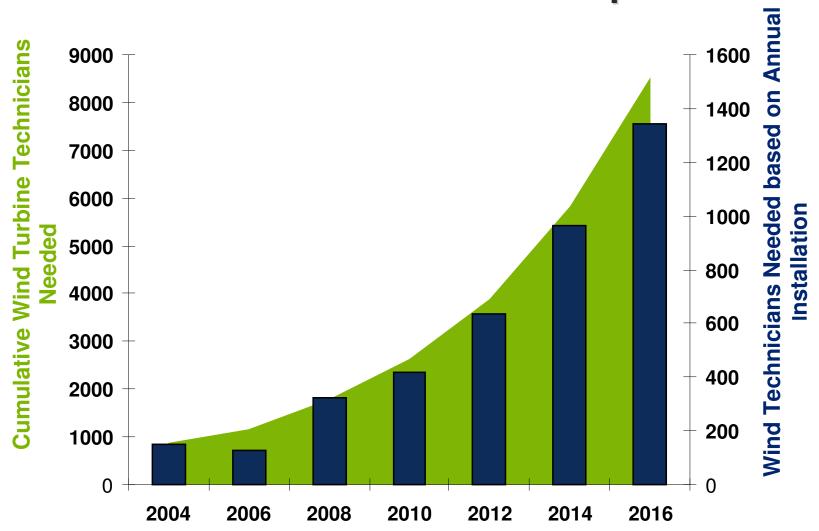
The 20% by 2030 Report

Figure 1-4. Annual and cumulative wind installations by 2030



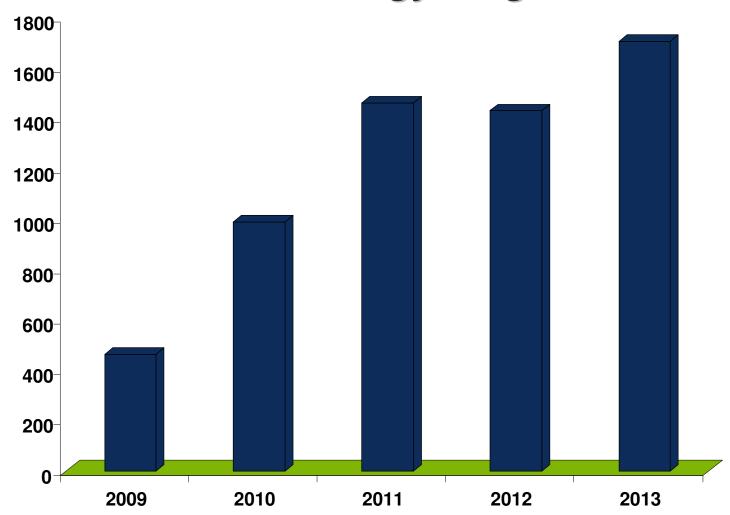


Wind Turbine Technicians Needed Based on the 20% Report



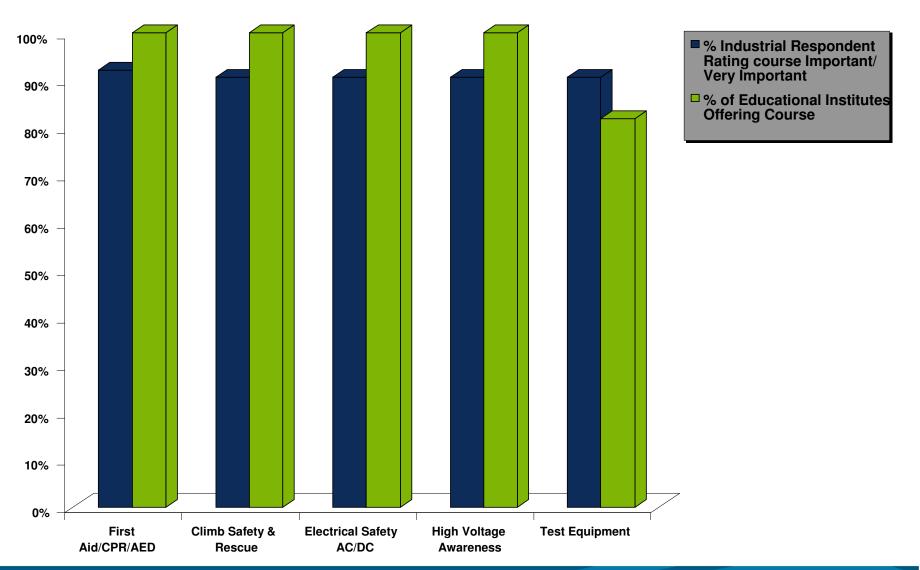


Number of Expected Graduates in Wind Technology Programs



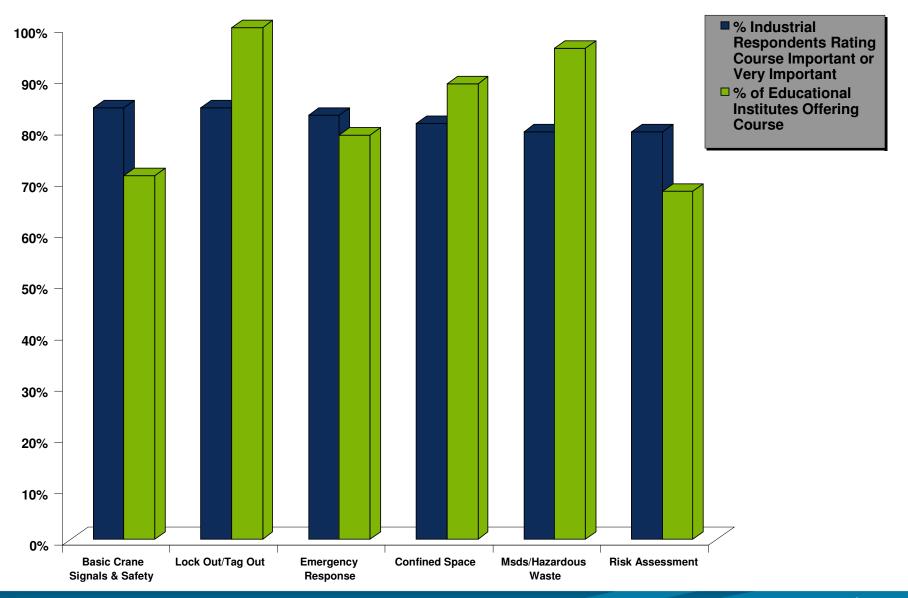


Wind Turbine Technician Skills



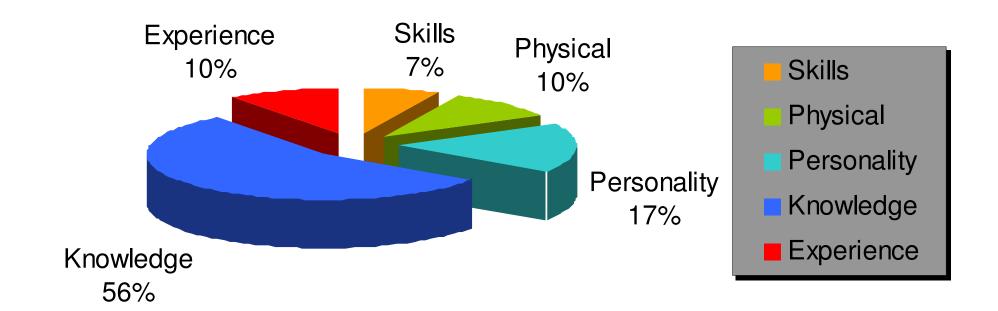


Wind Turbine Technician Skills



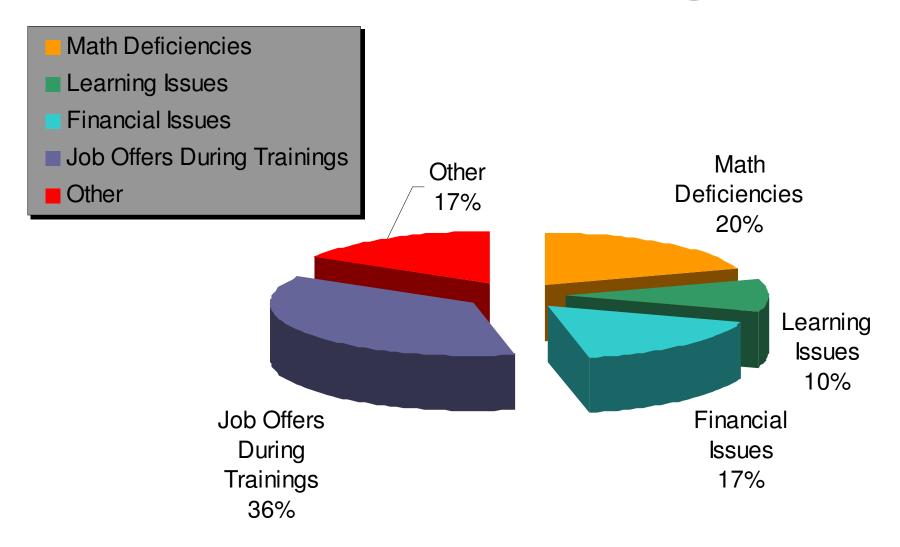


Industry Identified Limitations in New Hires





Educational Institutions Primary Reason for Students not Graduating







Wind Turbine Service Technician Skill Set Process

Wind Turbine Service Technician Skill Set

- Wind technician programs are being created throughout the nation
- AWEA is establishing a skill set "seal of approval" to support these programs and our business members.
- June 2009, AWEA hosted a meeting to lay foundation for this skill set





Future Steps for the Skill Set

Finalizing the skill set



Approval by AWEA Board



Establish a Review Committee



Programs that match the skill set will receive an AWEA "Seal of Approval"



Next Steps

- AWEA Education Final Survey Release
 - Before the end of the year
- Education Programs Database
 - Next couple of months
- AWEA Wind Turbine Service Skill Set
 - Pending AWEA Board Approval in November



THANK YOU!

For more information and updates please contact: education@awea.org

